PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220							
MJWD-VB60033	Action	vell as, where applicable, item 5 below.							
International application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year)									
PCT/EP2004/002007 26/02/2004 28/02/2003									
Applicant									
GLAXO GROUP LIMITED									
CHARO CHOT LINE	GLAAO GROOF LIFITIED								
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.									
This International Search Report consists	of a total of 8 sheets.								
X It is also accompanied by	a copy of each prior art document cited in the	his report.							
Basis of the report									
 With regard to the language, the language in which it was filed, un 	international search was carried out on the less otherwise indicated under this item.	basis of the international application in the							
The international this Authority (Ru		nslation of the international application furnished to							
b. X With regard to any nucle	otide and/or amino acid sequence disclos	ed in the international application, see Box No. 1.							
2. X Certain claims were fou	and unsearchable (See Box II).								
3. X Unity of invention is lac	king (see Box III).								
4. With regard to the title,									
the text is approved as su	ubmitted by the applicant.								
	shed by this Authority to read as follows:								
VACCINES DERIVED FROM	M EPITHELIAL CELL MUCIN MU	C-1							
	•								
·									
5. With regard to the abstract,									
X the text is approved as s	ubmitted by the applicant.								
		nority as it appears in Box No. IV. The applicant earch report, submit comments to this Authority.							
6. With regards to the drawings,	6. With regards to the drawings.								
a. the figure of the drawings to be	published with the abstract is Figure No	 							
as suggested by the applicant.									
	is Authority, because the applicant falled to								
	is Authority, because this figure better chara	acterizes the invention.							
b. X none of the figures is to t	pe published with the abstract.								

International application No.

PCT/EP2004/002007

Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the daimed nation, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
	b.	format of material X in written format X in computer readable form
	c.	time of filing/fumishing contained in the International application as filed
		filed together with the international application in computer readable form If turnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addi	itional comments:
	•	· · · · · · · · · · · · · · · · · · ·
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PCT/EP2004/002007 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/12 C07K C07K14/47 A61K31/7088 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C12N C07K A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, Sequence Search, WPI Data, PAJ, BIOSIS, EMBASE, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to daim No. Category 9 WO 01/57068 A (APOSTOLOPOULOUS VASSO 1-17 X AUSTIN RES INST (AU); MCKENZIE IAN F C (AU); P) 9 August 2001 (2001-08-09) SEQ ID NO:7 page 2 - page 11 X WO 00/06723 A (FITZER ATTAS CHERYL 1-17 FRIDKIN MATITYAHU (IL); BAR HAIM EREZ (IL); CARM) 10 February 2000 (2000-02-10) SEQ ID NOs: 44 and 48 page 4 - page 8 page 40 - page 42 Patent family members are listed in annex. Further documents are listed in the continuation of box C. X Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention earlier document but published on or after the international "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document. citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 24 August 2004 31/08/2004

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International Application No PCT/EP2004/002007

	Citation of document with indication, where appeared to afthe actional access	Dolovant to eleie No
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	WO 01/18035 A (TRANSGENE SA; IMP CANCER RES TECHNOLOGY LTD (GB)) 15 March 2001 (2001-03-15) SEQ ID NO:4 page 1 - page 6; claims 1-37 page 42	1-17
	DOLBY N ET AL: "Design and Expression of a Synthetic Mucin Gene Fragment inEscherichia Coli" PROTEIN EXPRESSION AND PURIFICATION, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 15, no. 1, February 1999 (1999-02), pages 146-154, XP004441752 ISSN: 1046-5928 the whole document	
1	DEML L ET AL: "Multiple effects of codon usage optimization on expression and immunogenicity of DNA candidate vaccines encoding the human immunodeficiency virus type 1 Gag protein" JOURNAL OF VIROLOGY, THE AMERICAN SOCIETY FOR MICROBIOLOGY, US, vol. 75, no. 22, November 2001 (2001-11), pages 10991-11001, XP002270897 ISSN: 0022-538X page 10998 - page 11000	
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claim 17 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. 🗶	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
	Although claim 17 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.			
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:			
з. 🔲	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This Int	ernational Searching Authority found multiple inventions in this international application, as follows:			
	see additional sheet			
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.			
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
	·			
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:			
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
	·			
Remar	k on Protest The additional search fees were accompanied by the applicant's protest.			
	No protest accompanied the payment of additional search fees.			
I				

Information on patent family members

International Application No
PCT/EP2004/002007

Patent document cited in search report	Publication date .	Patent family member(s)	Publication date
WO 0157068	A 09-08-2001	US 6548643 B1 WO 0157068 A1 AU 2987701 A CA 2399026 A1 EP 1257565 A1 JP 2003533181 T	15-04-2003 09-08-2001 14-08-2001 09-08-2001 20-11-2002 11-11-2003
WO 0006723	A 10-02-2000	AU 775162 B2 AU 5062999 A EP 1100901 A1 WO 0006723 A1	22-07-2004 21-02-2000 23-05-2001 10-02-2000
WO 0118035	A 15-03-2001	AU 7651500 A CA 2383737 A1 WO 0118035 A2 EP 1210430 A2 JP 2003510094 T	10-04-2001 15-03-2001 15-03-2001 05-06-2002 18-03-2003

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